

CLAIMS

1. Braked rolling bearing device of the type for a control wheel, comprising an outer part and an inner part, one being able to rotate with respect to the other, which does not rotate, by means of at least one row of rolling elements arranged between the said rotating and non-rotating parts, the said device further comprising a means for detecting rotation parameters, a means for braking the rotating part, and an annular friction member, the braking means comprising at least one component equipped with flexible tabs bearing against the annular friction member.
2. Device according to Claim 1, wherein the tabs are axially flexible.
3. Device according to Claim 1, wherein the tabs are radially flexible.
4. Device according to Claim 1, wherein the tabs are arranged in opposing pairs.
5. Device according to Claim 1, wherein the tabs are uniformly distributed about the circumference.
6. Device according to Claim 1, wherein the member equipped with tabs is push-fitted onto a support of the outer ring.
7. Device according to Claim 1, wherein in that the member equipped with tabs is push-fitted onto a shaft secured to the inner ring.
8. Device according to Claim 1, wherein in that the member equipped with tabs comprises a push-fit portion and a portion equipped with tabs, one of

the portions being axial and the other radial.

- 5 9. Device according to claim 1, wherein the member equipped with tabs comprises a push-fit portion equipped with tabs..
- 10 10. Device according to claim 1, wherein the member equipped with tabs forms a sealing means by way of a narrow passage.
11. Device according to claim 1, wherein the annular friction member comprises a support and a friction lining.
- 15 12. Device according to claim 1, wherein the annular friction member comprises a support mounted axially between a bearing ring and a shoulder of an element secured to the said ring.
- 20 13. Device according to claim 1, wherein the annular friction member comprises a support push-fitted onto an element secured to a bearing ring.
- 25 14. Device according to claim 1, wherein the annular friction member comprises a friction lining supported directly by an element secured to a bearing ring.
- 30 15. Device according to claim 1, wherein it comprises a seal protecting the braking means.
16. Device according to claim 1, wherein the means for detecting rotation parameters comprises a sensor secured to the non-rotating part and an encoder secured to the rotating part.
- 35 17. Device according to claim 1, wherein the means for detecting the rotation parameters comprises a sensor mounted in a cover equipped with a wire

outlet.

18. Device according to claim 1, wherein the inner  
ring of the bearing is push-fitted onto a shaft  
supporting the wheel.

19. Device according to Claim 18, wherein the said  
shaft is provided with a shoulder extending  
outwards.

20. Device according to claim 1, wherein the outer  
ring of the bearing is push-fitted into a casing  
supporting part of the braking means.

21. Device according to claim 1, wherein the cover is  
fixed onto the end of the casing so as to close  
off the said casing on the opposite side to the  
wheel.

22. Braked rolling bearing device for a wheel, said  
device comprising an outer part, an inner part,  
one of the outer part and inner part being able to  
rotate with respect to the other part, at least  
one row of rolling elements arranged between the  
said rotating and non-rotating parts, a rotation  
parameters detector, a brake for braking the  
rotating part, and an annular friction member,  
said brake comprising at least one component  
equipped with flexible tabs bearing against the  
annular friction member.

23. Braked rolling bearing device for a wheel, said  
device comprising an outer part, an inner part, at  
least one row of rolling elements arranged between  
the said outer and inner parts so that one of the  
outer part and inner part be able to rotate with  
respect to the other part, a rotation parameters  
sensor, an annular friction member, and a brake  
for braking the rotating part, said brake

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comprising flexible tabs bearing against the annular friction member.